

Title (en)

NEGATIVE PRESSURE LOW DEAD OIL ANTI-BUBBLE AEROPLANE FUEL TANK APPARATUS

Title (de)

UNTERDRUCKFLUGZEUGTREIBSTOFFTANKVORRICHTUNG MIT BLASENSCHUTZ UND NIEDRIGEM SCHWERÖLGEHALT

Title (fr)

APPAREIL DE RÉSERVOIR DE CARBURANT D'AVION ANTI-BULLES D'HUILE MORTE À BASSE PRESSION NÉGATIVE

Publication

EP 3604138 A1 20200205 (EN)

Application

EP 17902039 A 20171124

Priority

- CN 201710179389 A 20170323
- CN 2017112887 W 20171124

Abstract (en)

The invention mainly belongs to the technical field of oil tank design and relates to a negative pressure type low-dead-oil anti-bubble aircraft oil tank device. The negative pressure type low-dead-oil anti-bubble aircraft oil tank device comprises an oil tank shell, an oil suction hose arranged inside the oil tank shell, an oil filler and an oil outlet that are arranged on the oil tank shell. The negative pressure type low-dead-oil anti-bubble aircraft oil tank device further comprises a wave-resistant baffle; the wave-resistant baffle consists of at least one wave-resistant baffle; the wave-resistant baffle divides the internal space of the aircraft oil tank device into at least two spaces; every two adjacent spaces communicate with each other through a communication port in the bottom of the corresponding wave-resistant baffle; and the negative pressure type low-dead-oil anti-bubble aircraft oil tank device introduces the oil in the high pressure space into the low pressure oil supply space by means of the pressure difference between the adjacent spaces. The negative pressure type low-dead-oil anti-bubble aircraft oil tank device provided in the present invention sucks the oil to flow towards the low pressure area by means of the pressure difference between different spaces inside the oil tank, and the oil can automatically flow towards the lower side under the gravity action along an internal slope of the aircraft oil tank device.

IPC 8 full level

B64D 37/08 (2006.01); **B64D 37/06** (2006.01)

CPC (source: CN EP)

B64D 37/06 (2013.01 - CN); **B64D 37/08** (2013.01 - CN EP); **B64D 37/20** (2013.01 - EP); **B64D 37/32** (2013.01 - CN)

Cited by

CN113339140A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3604138 A1 20200205; **EP 3604138 A4 20201216**; **EP 3604138 B1 20220803**; CN 106945842 A 20170714; WO 2018171239 A1 20180927

DOCDB simple family (application)

EP 17902039 A 20171124; CN 201710179389 A 20170323; CN 2017112887 W 20171124